# DMOPC '16 Contest 2 P3 - Queries

**Time limit:** 0.6s     **Memory limit:** 64M

You receive $M$ queries with the form of $(x, y)$. Find a sequence of size $N$, formed with `a`'s and `b`'s where you must "find" each query. A query is found if you can find a substring with $x$ `a`'s and $y$ `b`'s.

## Input Specification

On the first line you will find the number of test cases, $T$ $(1 \leq T \leq 50)$.
For each test case, you will find on the first line $N$ and $M$ $(1 \leq N \leq 50, 1 \leq M \leq 500)$.
On the next $M$ lines, you will find the queries with the space-separated integers $x$ and $y$.

## Output Specification

For each test case, print a sequence which respects the requirement. If you can't find a sequence, print `-1`.

## Sample Input

```
1
7 2
4 2
3 3
```

## Sample Output

```
abaabab
```